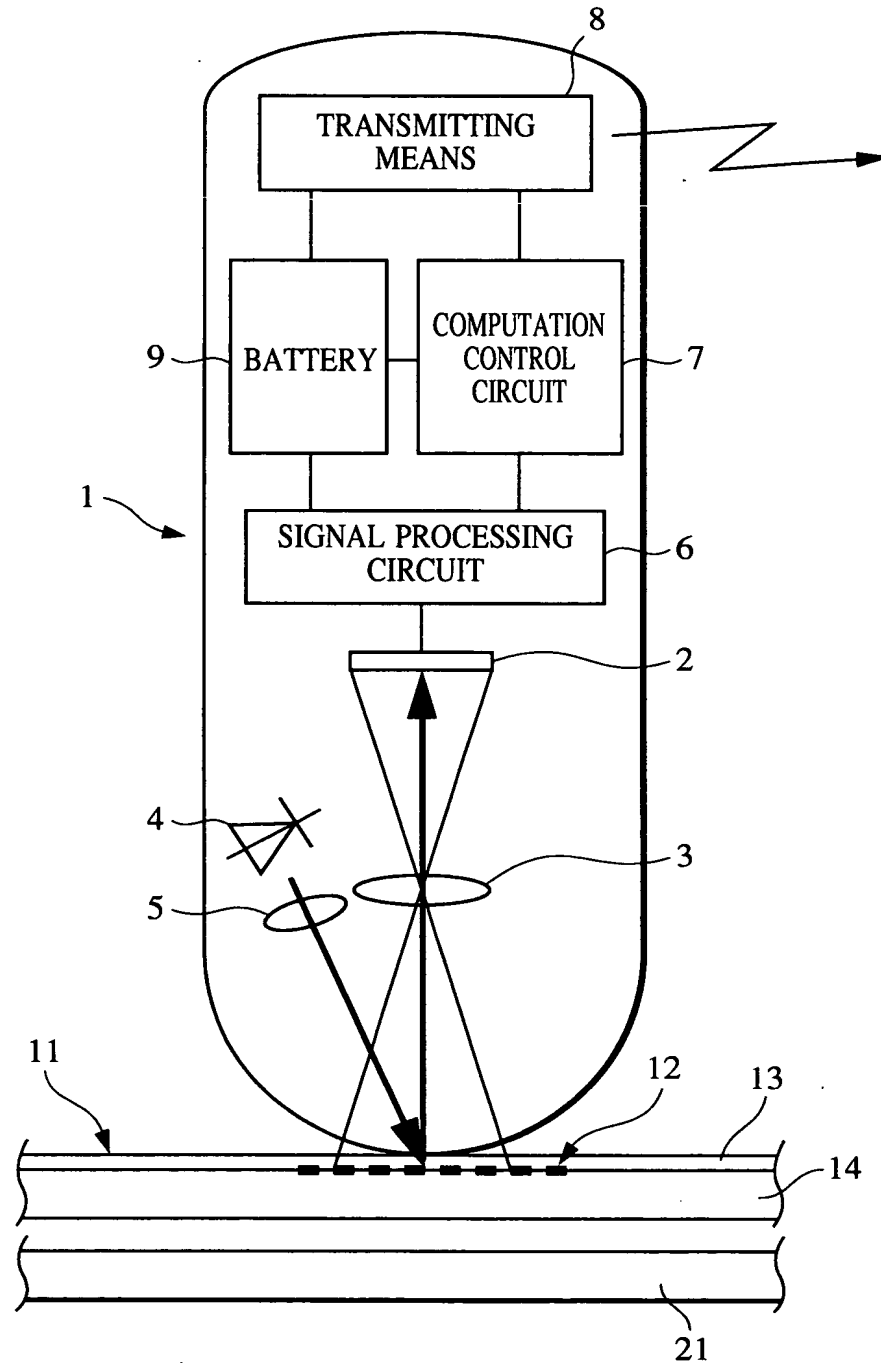# FIG. 1

## PEN CONFIGURATION USED IN FIRST EMBODIMENT

# FIG. 2

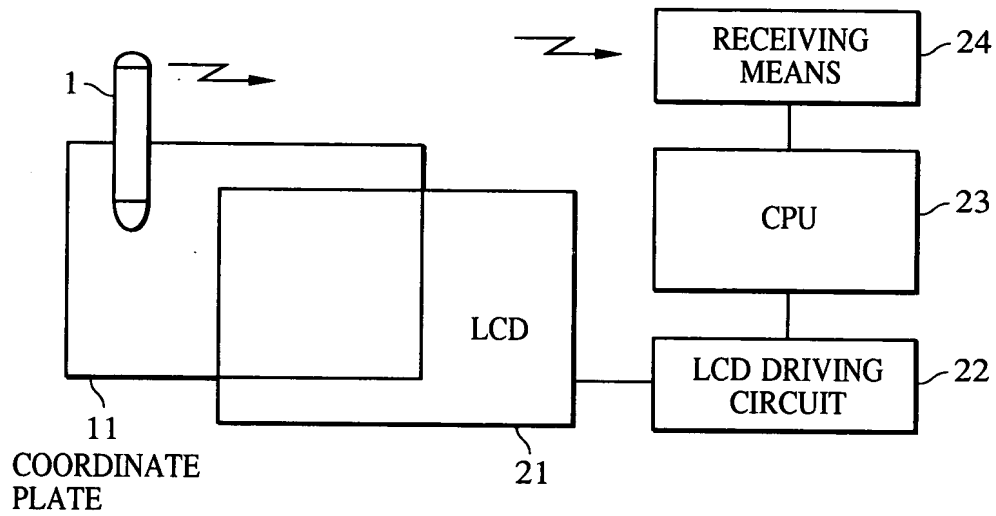BLOCK DIAGRAM OF ENTIRE SYSTEM IN FIRST EMBODIMENT

# FIG. 3

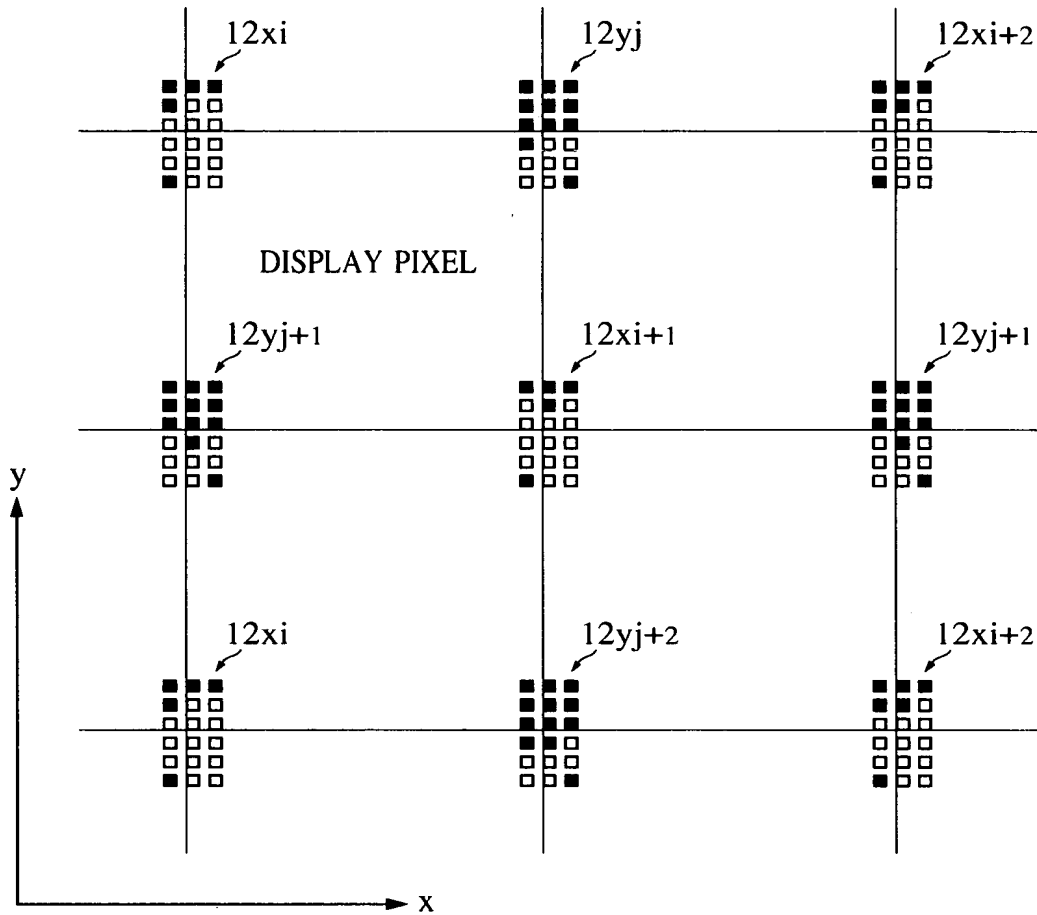DOT ARRAY OF COORDINATE PLATE USED IN FIRST EMBODIMENT

# FIG. 4

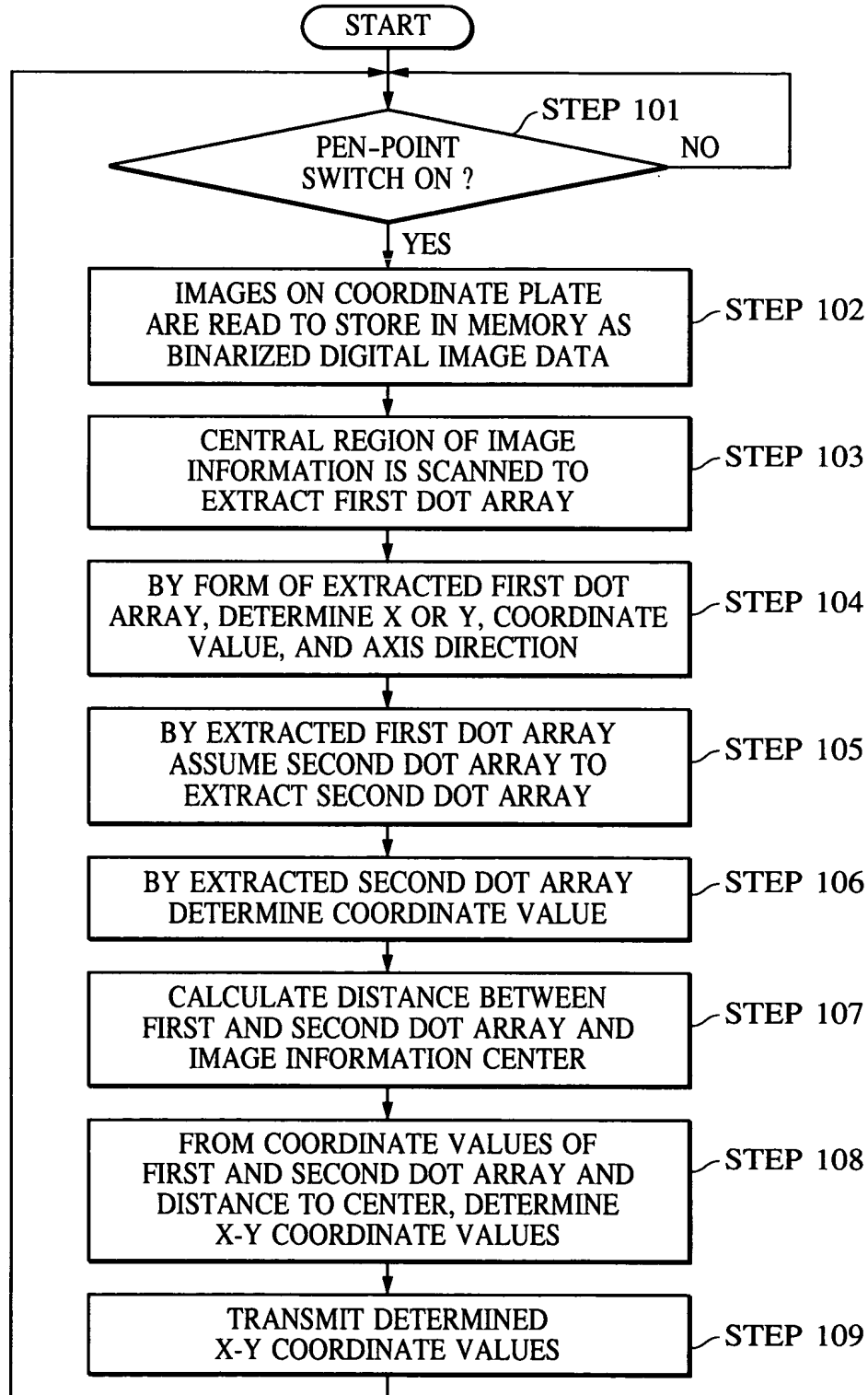FLOW CHART OF PROCESSING PROCEDURE OF FIRST EMBODIMENT

START

STEP 101

PEN-POINT SWITCH ON ? — NO

YES

IMAGES ON COORDINATE PLATE ARE READ TO STORE IN MEMORY AS BINARIZED DIGITAL IMAGE DATA — STEP 102

CENTRAL REGION OF IMAGE INFORMATION IS SCANNED TO EXTRACT FIRST DOT ARRAY — STEP 103

BY FORM OF EXTRACTED FIRST DOT ARRAY, DETERMINE X OR Y, COORDINATE VALUE, AND AXIS DIRECTION — STEP 104

BY EXTRACTED FIRST DOT ARRAY ASSUME SECOND DOT ARRAY TO EXTRACT SECOND DOT ARRAY — STEP 105

BY EXTRACTED SECOND DOT ARRAY DETERMINE COORDINATE VALUE — STEP 106

CALCULATE DISTANCE BETWEEN FIRST AND SECOND DOT ARRAY AND IMAGE INFORMATION CENTER — STEP 107

FROM COORDINATE VALUES OF FIRST AND SECOND DOT ARRAY AND DISTANCE TO CENTER, DETERMINE X-Y COORDINATE VALUES — STEP 108

TRANSMIT DETERMINED X-Y COORDINATE VALUES — STEP 109

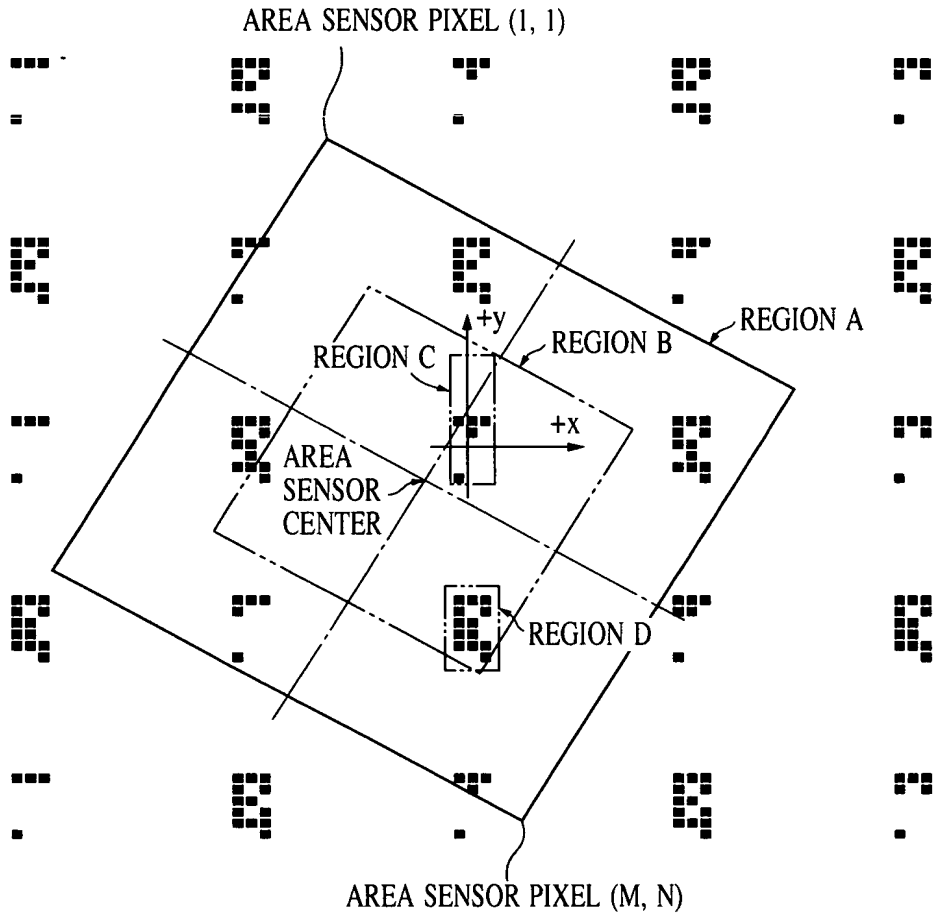# FIG. 5

IMAGE INFORMATION TO BE READ BY AREA SENSOR IN FIRST EMBODIMANT

# FIG. 6

IMAGE INFORMATION TO BE READ BY AREA SENSOR IN FIRST EMBODIMANT
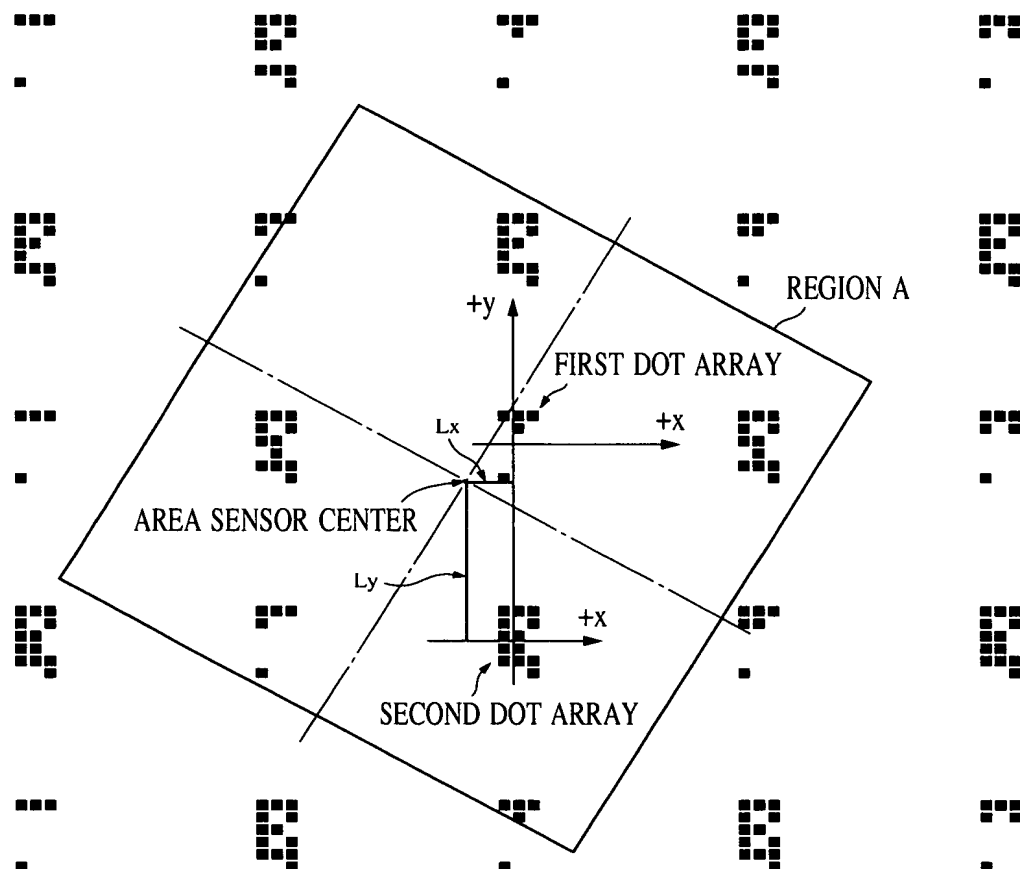
# FIG. 7

SCHEMATIC SECTIONAL VIEW OF
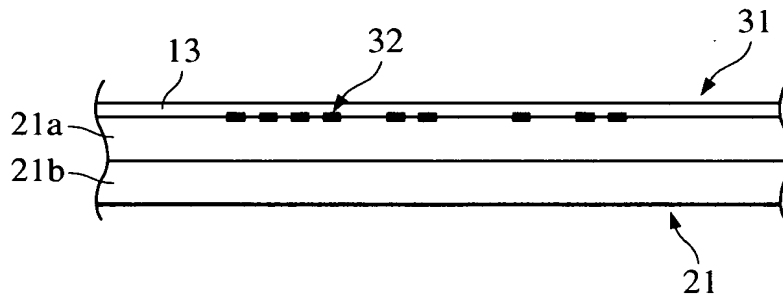COORDINATE PLATE USED IN SECOND EMBODIMENT

FIG. 8

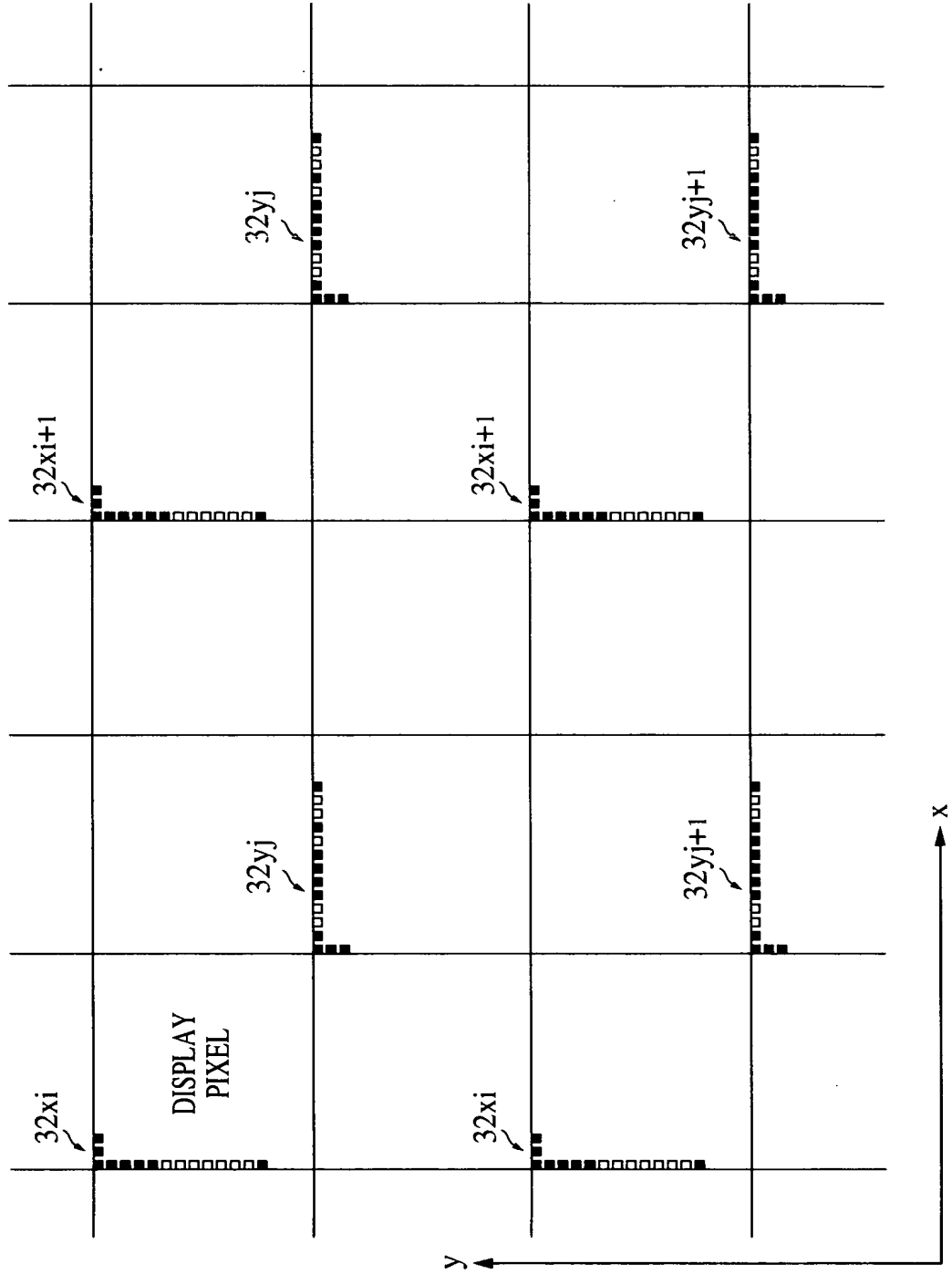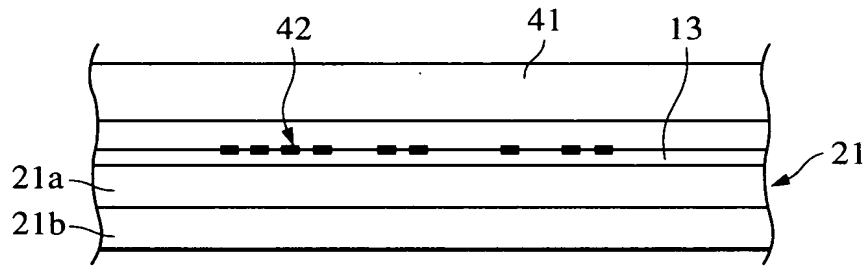DOT ARRAY OF COORDINATE PLATE USED IN SECOND EMBODIMENT

# FIG. 9

SCHEMATIC SECTIONAL VIEW OF COORDINATE PLATE
IN MODIFIED EMBODIMENT